

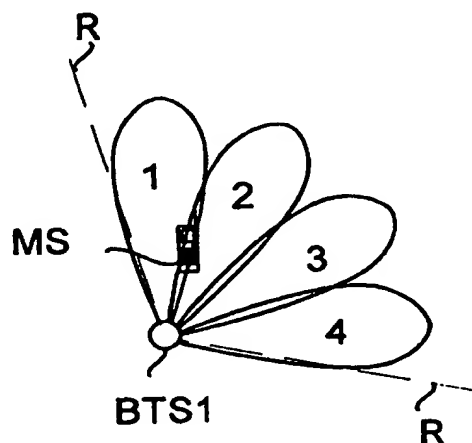


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(54) Title: METHOD FOR DETERMINING THE POSITION OF A MOBILE STATION**(57) Abstract**

The present invention relates to a base station (BTS1) of a cellular radio system, which base station comprises antenna equipment (1-4) for receiving signals from a certain mobile station simultaneously by at least two antenna beams (1-4) directed in different directions, and measuring equipment for measuring the signal levels of the signals received by the respective antenna beams. For determining the position of the mobile station (MS) with greater accuracy the base station (BTS1) is provided with calculating means which are responsive to the measuring equipment to determine the direction from the base station (BTS1) to the mobile station (MS) by calculating the relations between the signal levels of the signals for the respective beams.



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